

Presented by



HEALTH CENTRE
FOR CHILDREN

THE 32nd
INTERNATIONAL
SEATING SYMPOSIUM



Imagine the
Possibilities

March 1-4, 2016
The Westin Bayshore, Vancouver, BC

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HEALTH CENTRE
FOR CHILDREN

www.seatingsymposium.com



This international symposium addresses current and future developments in the areas of seating, positioning and mobility. Topic areas include service delivery, product development, research and outcomes. The format for the symposium will include pre-symposium, plenary, instructional, paper and poster sessions. Extensive opportunities will be provided for networking with colleagues.

Symposium Objectives

At the completion of this symposium, participants will be able to:

1. Identify and compare new and existing positioning and mobility equipment.
2. Discuss the emerging research evidence supporting seating and mobility practices.
3. Identify resources for seating and mobility practice.
4. Compare and discuss seating and mobility techniques and interventions.
5. Explain the advantages and disadvantages of a number of innovative service delivery models.

Location & Accommodation

The Westin Bayshore
1601 Bayshore Drive (parallel to West Georgia Street)
Vancouver, BC, Canada V6G 2V4

A block of rooms has been set aside at a special rate of CDN \$162.00 (plus tax) for a standard guest room (single/double) available for conference delegates, and will be held based on availability. Reserve early by calling toll-free: 1.800.WESTIN.1 or local: 604.682.3377 or by email: bayshore.reservations@westin.com. Please specify that you are booking under "ISS 2016." Rooms have sold out for the three previous symposiums, so reserve early to avoid disappointment.

Credits

A certificate of attendance listing approved continuing education credits will be issued to all participants. RESNA will recognize the continuing education offered by UBC Interprofessional Continuing Education in fulfillment of the requirements to renew ATP certification; more information will be provided on-site. For updates in regards to credits see our website: www.seatingsymposium.com

Committee

Maureen Story (Co-Chair)

BSR (PT/OT), Therapy Department, Sunny Hill Health Centre for Children, Vancouver, BC

David Cooper (Co-Chair)

MSc (Kinesiology), Rehabilitation Technologist, Therapy Department, Sunny Hill Health Centre for Children, Vancouver, BC

Catherine Ellens

BScOT, Occupational Therapist, Therapy Department, Sunny Hill Health Centre for Children, Vancouver, BC

Registration

ONLINE: Secure, fast, online registration is available for Visa and MasterCard holders at www.seatingsymposium.com

FAX: Fax completed registration form to: 1-604-822-4835

PHONE: (please have MasterCard/Visa ready)

Toll free within North America: 1-855-827-3112;

Other callers: 1-604-827-3112

MAIL: Send the registration form with cheque to:

IN 9541 Registration

Interprofessional Continuing Education

The University of British Columbia

Room 105-2194, Health Sciences Mall

Vancouver, BC, V6T 1Z3, Canada

Participants paying by credit card outside of North America: Please inform your credit card company of the transaction as some banks put a block on credit card payments made outside your country.

Tuition & Syllabus

Please see registration form (on back of brochure) for details. To receive the reduced early-bird rates, you must register by Monday, January 18, 2016. The tuition fee includes coffee breaks, reception, certificate of attendance and lunches (provided Tuesday for pre-symposium registrants, and Wednesday and Thursday for symposium registrants). The symposium syllabus will be available online one week prior to the symposium. If you wish to purchase a print copy of the syllabus (to be received on-site), there is an additional \$30 fee (including tax).

Refund, Transfer & Cancellation

Refunds will be made (less a \$50.00 processing fee) if written notice of withdrawal is received by February 5, 2016. No refunds will be granted for withdrawal after that date. There is a \$25 replacement charge in case of a registration transfer. Please contact us prior to February 5, 2016 if you cannot attend and would like another person to come in your place. Sunny Hill Health Centre for Children and UBC Interprofessional Continuing Education reserve the right to cancel or modify this program if registration is insufficient. In the event of cancellation, a refund will be issued.

Vancouver Tourism

Vancouver provides visitors with many opportunities to experience the West Coast lifestyle. If you would like more information on travelling in the area or other accommodations, please call these numbers or go online:

Tourism BC

TEL | 1-800-HELLO-BC

(435-5622)

www.hellobc.com

Tourism Vancouver

TEL | 1-604-683-2000

FAX | 1-604-682-6838

www.tourism-vancouver.org

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Sponsors

We would like to acknowledge with special appreciation the financial contribution in the form of an unrestricted educational grant from the following organizations:

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In-kind contribution



ISS has been provided with the opportunity to have a number of SmartDrives available for use by individuals in wheelchairs to make it easier to maneuver the carpets and long distances in the symposium venue. If you would like to use a SmartDrive, please see the registration page.

Exhibitor Listing

AAT Alber Antriebstechnik GmbH
 Accessible Designs, Inc.
 Activeaid Inc.
 Adaptive Engineering Lab
 Adaptive Switch Laboratories, Inc.
 AKW Industries USA Inc.
 Amysystems
 Beds By George
 BlueSky Designs, Inc.
 Bodypoint, Inc.
 Broda Seating
 Colours Wheelchair
 Comfort Company
 Convaid
 Curtiss-Wright
 Daedalus Technologies, Inc.
 Daher Manufacturing Inc.
 Drive DeVilbiss
 Dynamic Health Care Solutions

EasyStand (Altimate Medical, Inc.)
 Epical Solutions
 Falcon Rehabilitation Products
 Freedom Concepts
 Freedom Designs
 Go! Mobility Solutions
 Handicare
 Innovation In Motion
 Invacare Corporation
 Joerns
 Ki Mobility
 Leggero
 LEVO
 MAX Mobility
 MK Battery
 Mobility Management
 Motion Composites
 Motion Concepts
 NuprodX, Inc.

Ottobock Healthcare
 Pacific Rehab Inc.
 Panthera
 Parsons ADL Inc.
 PDG: Product Design Group
 Permobil, Inc.
 Physipro Inc.
 PinDot
 Precision Seating Solutions, LLC
 Prime Engineering
 PRM, Inc.
 Pro Medicare s.r.l.
 Quantum Rehab, A Division of
 Pride Mobility
 R82, Inc.
 R & M Health Care Inc.
 RAZ Design Inc.
 RAM Mounting Systems
 Ride Designs

Rifton Equipment
 ROHO, Inc.
 Seating Dynamics
 SleepSafe Beds, LLC
 Star Cushion Products, Inc.
 Stealth Products
 Sunrise Medical
 Supracor
 Switch It
 Symmetric Designs Ltd.
 Therafin Corporation
 Thomashilfen
 TiLite
 Top End
 Varilite
 Vista Medical Ltd.
 Yamaha Motor IM America Inc.

TUESDAY, MARCH 1, 2016

Pre-symposium Sessions & Exhibits: Schedule at-a-glance

There will be a morning break from 10:30–10:45 and an afternoon break from 14:45–15:00 for this day.

08:00 - 09:00	Registration & Breakfast				
09:00 - 12:15	Pre-symposium Sessions: 3 full day, 2 morning and 2 afternoon				
	PS1	PS2	PS3	PS4	PS5
12:15 - 13:15	Lunch (provided for pre-symposium registrants)				
13:15 - 16:30	PS1 (cont.)	PS2 (cont.)	PS3 (cont.)	PS6	PS7
Exhibits Open & Demonstration Stage Begins					
Viewing of the exhibits is complimentary for the public for this day only . The exhibits will close at 19:00.					
A stage will be set up in the exhibit foyer from 13:15-16:30. Organizations have been selected in a lottery to present an exciting 10-minute demonstration of their products. The schedule for the demonstration stage has been posted online. Please check the website for this information: www.seatingsymposium.com					

FULL DAY SESSIONS

PS1, PS2 & PS3 09:00-16:30
(1-hour lunch and two 15-minute breaks will be provided)

PS1 | Intermediate-Advanced

6-HOUR PRE-SYMPOSIUM WORKSHOP

Using Biomechanical Principles in the Management of Complex Postural Deviations in Sitting

Joel M Bach, Kelly Waugh

An understanding of the basic principles of biomechanics and how these apply to a sitting position can improve your ability to plan and implement seating interventions to address complex postural problems. Analysis of case studies from workshop participants will reinforce the practical application of concepts presented in the morning.

1. Explain using biomechanical concepts why a 'forward head posture' is so difficult to control in seating
2. Describe the use of three point control in the management of a scoliotic sitting posture.
3. List three intervention strategies for management of a kyphotic sitting posture.

PS2 | Beginner-Intermediate

6-HOUR PRE-SYMPOSIUM WORKSHOP

Laying the Foundation of Wheelchair Seating and Mobility Assessments

Patricia Tully, Diane Thomson, Sheila Blochlinger

This fundamental class will touch on the components of seating and mobility evaluations from assessment, recommendation, trials, simulation, to delivery and follow up. The presenters will cover the lifespan, including pediatrics, and discuss interventions for a variety of diagnoses. Case studies will be used to lead the attendees through clinical decision making processes.

1. Take standard measurements and apply those measurements to seating choices.

2. Discuss three ways to simulate equipment trials when the equipment is not available.
3. Process through a decision making tree for equipment funding sources.
4. Identify two special considerations for various diagnostic groups, including brain injury, spinal cord injury, degenerative neurologic disorders, bariatric needs, pediatric equipment needs.

PS3 | Intermediate-Advanced

6-HOUR PRE-SYMPOSIUM WORKSHOP

Seating the Client with Complex Needs

Jo-Anne Chisholm, Joanne Yip, Janice Duivestain, Janice Evans, Krista Carwana, Elaine Antoniuk

This workshop includes multiple presenters with expertise in issues around high complexity seating assessment and fabrication. Evidence based lecture, case review, video, and experiential learning will be used. Participants have the opportunity to interact with clients, seating technicians and clinicians in breakout stations that demonstrate creative seating applications for high complexity needs.

1. List five complicating health issues that impact your seating assessment of the client with complex needs.
2. Describe one evidence-based seating product parameter to address each of these complicating health issues.
3. Identify custom fabrication techniques for each stated product parameter.

HALF DAY MORNING SESSIONS

PS4 & PS5 09:00-12:15 (A 15-MINUTE BREAK WILL BE PROVIDED)

PS4 | Beginner-Intermediate

3-HOUR PRE-SYMPOSIUM WORKSHOP

Paediatric Power Mobility - Increasing Options for Early Independent Mobility

Roslyn W Livingstone, Debra A Field, Scott Langmead, Ginny S Paleg, Tim Adlam, Rae Baines

This workshop will present research and best practice supporting use of power mobility with infants, toddlers and preschool children. It will incorporate videos, case-studies and hands-on experience. Presenters from different countries will highlight recent research in this area as well as innovations in child-friendly technology and creative service delivery programs.

1. Compare features of at least three equipment options and describe their benefit to children and families.
2. Describe at least four considerations for developing a loan program for assessment and provision of power mobility.
3. Discuss at least three physical, social and environmental considerations when introducing power mobility.

PS5 | Beginner-Intermediate

3-HOUR PRE-SYMPOSIUM WORKSHOP

Applying Current Evidence to Clinical Practice for Pressure Management in Wheelchairs and Seating

Laura Titus, Jennifer Birt

Current evidence related to pressure management in wheelchair/seating is translated into take home clinical applications. Content covers tilt, recline, weight-shift, barriers to power tilt use and clinical resources, including assessment and intervention for sitting and mobility from the Canadian Best Practices for the Prevention and Management of Pressure Ulcers.

1. Be able to explain how the current evidence on pressure management related to weight-shifting strategies and positioning technology (tilt, recline) can be applied to wheelchair/seating assessment and intervention.

2. Be able to describe methods to individualize weight-shifting strategies for pressure management, including how to determine the effectiveness of different weight-shifting techniques/strategies.
3. Be able to describe the clinical benefits of using the Canadian Best Practice Guidelines for Prevention and Management of Pressure Ulcers in Persons with Spinal Cord Injury as evidence in their practice, including being able to apply principles and recommendations from the 24 hour approach for pressure management to their clinical practice.

12:15 LUNCH (provided for pre-symposium registrants)

13:15 EXHIBITS & DEMO STAGE BEGINS

Exhibits will be open from 13:15 - 19:00. The demo stage will take place from 13:15 - 17:00. Several organizations have been selected in a lottery to present an exciting 10-minute demonstration of their products. The schedule for the demonstration stage will be posted early in 2016.

HALF DAY AFTERNOON SESSIONS

PS6 & PS7 13:15-16:30 (A 15-MINUTE BREAK WILL BE PROVIDED)

PS6 | Beginner-Intermediate | Manufacturer

3-HOUR PRE-SYMPOSIUM WORKSHOP

Ceiling Lifts, Slings, Wheelchairs and Seating –The Connection!

Michelle Brigid Harvey, Elizabeth G Ball

This presentation will allow a hands on experience of seeing different slings, ceiling lifts, wheelchairs and seating systems working together to transfer and reposition a client. We will use video and photos to show how the wrong sling can lead to sliding in wheelchairs, pressure areas and ineffective seating. We will demonstrate techniques such as using tilt, slide sheets and band slings to reposition a client into a wheelchair. We will cover different ceiling lift systems and how they can effect wheelchair transfers and repositioning.

1. List 5 or more different types of ceiling lift slings, and their best use in relation to seating and wheelchairs.
2. Explain the advantages of the X-Y gantry ceiling lift and wheelchairs.
3. Identify ways to promote musculoskeletal injury prevention by identifying the correct choices of slings and ceiling lifts in relation to seating.
4. Achieve best possible seating with least amount of manual handling by choosing the most appropriate sling for seating with a ceiling lift.

PS7 | Beginner-Intermediate | Manufacturer | Limited enrolment (36)

3-HOUR PRE-SYMPOSIUM WORKSHOP

When Wheelchairs Won't Roll: Top 10 Maintenance Tips for Perfect Manual Wheelchair Performance

Tina Roesler, Jane Fontein, Eric Simoneau, Shaun Pathmanatan

"My wheelchair won't roll!" What do you do when you hear these words? Reach for your tools, call a technician, panic? What if you knew exactly how to fix it? This course will provide practical wheelchair maintenance tips with opportunity for hands on experience using a small group format.

1. Identify and correct at least 3 common rear tire and caster issues that can significantly impact manual wheelchair efficiency.
2. Assess and adjust seating components and evaluate centre of gravity for optimal propulsion.
3. List three strategies they can teach their clients to empower them to take control of their wheelchair maintenance.

16:30 EXHIBITS AND DEMO STAGE CONTINUES

The exhibits will adjourn at 19:00.

The demo stage will adjourn at 17:00.

Wednesday, March 2, 2016

08:00 REGISTRATION

Exhibits, Continental Breakfast & Posters

08:30 OPENING REMARKS

Dave Cooper & Maureen Story (co-chairs)

The Honourable Carla Qualtrough, Minister of Sport and Person with Disabilities, Canada

08:50 KEYNOTE

Creative Accessibility and Motivation to Embrace Our Dreams

Linda McGowan

1. Introduce the concept of developing or acquiring a disability at birth or sometime throughout life. What does it mean personally to parents, to a child, to an adult?
2. Explain/simplify the limited attitudinal options and their consequences that exist for families and people with disabilities.
3. Describe imaginative but practical ways to create accessibility.
4. Discuss personal experiences close to home and far away that demonstrate that with enough time and patience, there is almost always a way to make it work.

09:35 PLENARY

Clinical Aspects of Aging with a Disability

Susan Johnson Taylor

1. Identify two research studies that can be used clinically.
2. Identify two factors relevant to aging with a disability to consider when interviewing a client.
3. Identify two considerations prior to making seating and mobility recommendations.

10:00 PLENARY

Smart Wheelchairs: Why They Are (and Why They Aren't) Almost Here

Ian M Mitchell

1. Compare the challenges faced by automated automobiles and wheelchairs.
2. Describe the additional challenges of sharing control between human and automation.
3. Plan for automation capabilities that are likely to become available in the near term.

10:25 POSTER SESSION

Each poster presenter will give a 1-minute & 1-slide presentation

10:40 BREAK

Refreshments & Exhibits

11:30 INSTRUCTIONAL SESSION A

A1 | Beginner-Intermediate

Product Design Innovation

Susan E Farricelli

Innovative ideas are realized through a strategic design process bolstered by collaboration and infused with funding opportunities. A strategic design process involves a methodical investigation of concepts, manufacturing processes, scientific research, market analysis and visual exploration. This process is repeated until the innovation is transformed into a viable solution.

1. Gain an understanding of the design innovation process.
2. Formulate a design innovation strategy .
3. Identify collaborative and funding opportunities.

A2 | Beginner-Intermediate**What's in the Trunk? Examining Trunk Posture, Stability and Outcomes***Bart Van der Heyden*

Thoracic seating interventions can have a major impact on the client's head position, upper extremity function, sliding when seated and overall seating comfort. The impact of adjusting different thoracic support areas and a postural training program for wheelchair users with neuromuscular kyphosis and scoliosis will be discussed.

1. Describe the impact of different adjustments of each thoracic region on sliding, seating tolerance, head position and upper extremity function.
2. Discuss at least 4 thoracic postural interventions for dealing with common seating challenges.
3. Be able to advise and implement a postural intervention plan for users with common seating challenges for maintaining posture and long term functional ability.

A3 | Beginner-Intermediate**How to Develop a Contextually Appropriate, Reliable, and Valid Wheelchair Service Provision Assessment***Mary Goldberg, Jon Pearlman, Mark Schmeler, Rachel Gartz, Alexandria Miles*

The International Society of Wheelchair Professionals will explain the process of creating and validating assessments to professionalize the wheelchair service provision field. Participants will be given the opportunity to simulate the process by developing contextually appropriate assessment questions related to provision services for clients using manual wheelchairs.

1. Identify key steps in assessment development.
2. Describe the components of a contextually appropriate, reliable, and valid assessment.
3. Identify methods used for assessment validation.

A4 | Beginner-Intermediate**Using the Wheelchair Skills Test (WST) and Wheelchair Skills Test Questionnaire (WST-Q) to Assess Manual and Powered Wheelchair Users – A Practical Workshop***R. Lee Kirby, Cher Smith*

The session will be primarily practical with the participants using the Wheelchair Skills Test Questionnaire (WST-Q) forms to assess themselves and the Wheelchair Skills Test (WST) forms to assess videotaped demonstrations of manual and powered wheelchair users actually completing the tests.

Participants will be able to:

1. Describe the Wheelchair Skills Test (WST) and the Wheelchair Skills Test Questionnaire (WST-Q) and the research evidence underlying them.
2. Access the WST and WST-Q Manuals and related forms from the Wheelchair Skills Program website.
3. Implement the WST and WST-Q in their own settings.

A5 | Beginner-Intermediate**Power Wheelchair Driving Methods for People with Muscle Weakness***Michelle L Lange*

Complex rehab power wheelchairs support many features, including alternative access, power seating and customizable programming. These features are essential for clients with muscle weakness. This course will explore proportional and digital driving methods requiring less active range of motion and force, programming tips to reduce effort and include case studies.

1. Describe three clinical implications of muscle weakness on use of a power wheelchair standard joystick.
2. Identify three alternative proportional access methods applicable to muscle weakness.
3. Identify three alternative non-proportional access methods applicable to muscle weakness.

A6 | Beginner-Intermediate | Manufacturer**Clinical Application of the Dispersion Index (DI)***Tom Hetzel, Barbara Crane, Sharon Sonenblum*

The dispersion index is a validated, reliable formula/method that can be easily utilized in wheelchair clinic interface pressure mapping (IPM) assessments to help determine if a wheelchair cushion will safely protect skin integrity of the user. This session will focus on literature review and defining dispersion index, the clinical application of DI, how to calculate DI on both Xsensor and FSA IPM systems and present case studies of wheelchair users comparing DI on commercially available pressure distribution and off-loading wheelchair cushions.

1. Define the term Dispersion Index as it relates to IPM and wheelchair cushion interfaces.
2. Calculate Dispersion Index using commercially available IPM systems.
3. List three ways to utilize Dispersion Index in their clinics.

**12:30 LUNCH (provided)
Exhibits & Posters**



14:00 SIMULTANEOUS PAPER SESSIONS #1 (Each paper will be 10 minutes in length with 5 minutes of Q & A)

	SALON 1	SALON 2	SALON 3
14:00	Power Wheelchair Mobility Training for Young Children <i>Timothy Caruso</i>	Impact of Transfer Training Among Full Time Pediatric Wheelchair Users <i>Ian Rice</i>	Does 'Goal Satisfaction' Improve with Personalized Power Wheelchair Skills Training? <i>Bonnie Sawatzky</i>
14:15	Predictors of Proficient Power Mobility in Young Children with Severe Motor Impairments <i>Shelley RH Mockler</i>	Does Wheelchair Configuration Make a Difference In Wheelchair Skills? <i>Jessica Presperin Pedersen, Mary Shea</i>	Air-Cell-Based Cushions Protect Seated Bariatric/Diabetic Patients: Computer Simulation Studies <i>Kara Kopplin</i>
14:30	Measuring Participation in Daily Life for Children and Youth Using Power Mobility <i>Debra A Field</i>	Impacts of Different Types of Wheelchair Backrests on the Propulsion Performance on Manual Wheelchair Propulsion: An Exploratory Study <i>Guy Robert</i>	Systematic Development of a Clinical Wheelchair Assessment Checklist <i>Vince Schiappa, Mark Schmeler, Richard Schein</i>
14:45	Sit-To-Stand Wheelchairs and Their Use by Children and Youth with Mobility Limitations: A Case Series <i>Debra A Field, Roslyn W Livingstone</i>	Training Considerations in Using a SmartDrive <i>Ben Mortenson</i>	A Seating Advisory Team in the Netherlands <i>Ellen Kaandorp</i>
15:00	Designing for Dystonia: Begin at the Beginning with Children, Parents and Therapists <i>Tim D Adlam</i>	Experienced Fatigue, Pain and Instability During Sitting in Persons with Chronic Spinal Cord Injury <i>Linda Valent</i>	Clinical Utility and Therapists' Perceptions of Shared Control for Powered Mobility Assessment and Training <i>Emma M Smith</i>

15:15 BREAK
Refreshments & Exhibits

16:00 INSTRUCTIONAL SESSION B

B1 | Intermediate-Advanced | Manufacturer

Arthrogyrosis - Challenges & Solutions When A Non Progressive Diagnosis Progresses

Kay E Koch, Stephanie Tanguay

Arthrogyrosis is a neuro muscular skeletal disorder that affects various joints in the body. Intelligence is not affected, but lack of mobility and exploration options can affect development. As the child grows and develops there are seating and positioning challenges that occur. Case studies will show examples of these challenges and solutions.

1. Identify two positioning challenges with someone with Arthrogyrosis.
2. Describe the assessment/evaluation process for prescribing seating and mobility solutions for this diagnosis.
3. List two mobility options used with someone with Arthrogyrosis.
4. Understand the challenges when surgery is not utilized with this diagnosis when considering seating options.

B2 | Intermediate-Advanced | Manufacturer

Utilising Bio-Mechanical Principles in Conjunction with Complex Modular Seating Solutions to Continuously Support the Changing Posture and Function of a Wheelchair User

Malene Ahern, Andrew Edwards

The presentation will convey these key bio-mechanical principles with three case studies where complex modular seating systems have been utilised to achieve adaptive positioning. The presenters, an Australian Physiotherapist and a UK Product Specialist will talk from personal experience working in private clinics and state funded hospitals.

1. Identify bio-mechanical principles that can be used to understand posture and postural dysfunction.
2. List the key seating strategies to enhance client posture, function, stability and comfort.
3. Evaluate three case studies where adaptive positioning has been achieved utilising modular supports.

B3 | Intermediate-Advanced | Manufacturer

Standing Up to Complications of Spinal Cord Injury/Disease

Ginger Walls

The benefits of standing for persons with SCI/D address the health/functional limitations often suffered from long-term sitting in a wheelchair. Utilizing case studies and ICF model, this presentation discusses clinical rationale for wheelchair-based standing as evidence-based best practice for improving participation, independence, and body structure/function issues for persons with SCI/D.

1. Identify 3 common secondary health conditions associated with SCI/D.
2. Identify 3 benefits of standing for persons with SCI/D as evidenced by the research.
3. Utilize the ICF Model to discuss and apply 3 evidence-based benefits for functional activities, participation, and body structure/function offered by a wheelchair-based standing device.

B4 | Beginner-Intermediate**Conquering the Complexity of Writing a Letter of Medical Necessity***Erin Baker*

Writing a letter of medical necessity (LMN) is often thought to be a time consuming and challenging process. This course will help provide knowledge and tools to overcome the hurdle of composing a quality LMN by addressing components that are essential to a successful letter along with helpful hints to improve efficiency of the process.

1. List the 5 necessary components of a quality letter of medical necessity.
2. Identify areas in their current writing methods that can be adapted or changed to become more efficient at generating quality letters of medical necessity.
3. Gain the necessary knowledge and tools available for use to generate a quality letter of medical necessity with greater efficiency and confidence.

B5 | Beginner-Intermediate**CanWheel: Improving Power Wheeled Mobility for Older Canadians***William Miller, William (Ben) Mortenson, Paula Rushton, R Lee Kirby, Pooja Viswanathan*

This session will describe CanWheel's approach to enhance the health, functioning and quality of life of older adult power wheelchair (PWC) users through addressing three basic questions: 1) How are PWCs used now?, 2) How can PWCs be used better, and 3) How can PWCs be better? The challenges, lessons learned, and the current status of our program will also be discussed. CanWheel's results can inform both improved clinical practice today and research efforts tomorrow.

1. Describe how PWC use changes over time and learners' experiences and perceptions of collaborative PWCs.
2. Describe current data-logger technology and what clinical and operational data can be collected on PWCs.
3. Describe how to apply a PWC training intervention based on the Wheelchair Skills Program.

B6 | Beginner-Intermediate | Manufacturer**Transit Standards for Seating, Wheelchairs, and Wheelchair Tiedowns***Sheilagh Sherman, Toni-Marie Taylor*

Individuals who remain seated in wheelchairs while travelling in vehicles are at increased risk of injury. Learn about the testing and standards for seating, wheelchairs, and wheelchair tiedown and occupant restraint systems to enhance safety for those remaining seated in wheelchairs, whether on public transit or in private vehicles.

1. Apply the workshop learning when prescribing manual or power wheelchairs for individuals who must remain seated in their wheelchairs when travelling in a vehicle.
2. Analyze the key considerations when prescribing seating and secondary postural supports for individuals who must remain seated in their wheelchairs when travelling in a vehicle.
3. Evaluate the safety of the set-up of the wheelchair tiedown and occupant restraint system for an individual who remains seated in a wheelchair, whether for a driver or passenger, or in a private or public vehicle.

THURSDAY, MARCH 3, 2016

08:00 REGISTRATION
Exhibits, Continental Breakfast & Posters

08:30 OPENING REMARKS
Catherine Ellens

08:40 Plenary**What Matters Most - Hosting Difficult Conversations***Jean L. Minkel*

1. Prepare to "host" a difficult conversation with a person who is experiencing a progressive decline in physical functioning.
2. Assess your own comfort level with leading and/or participating in a person-centered conversation about what is most important to this person, especially if time is short.
3. Plan for an interview which involves genuine curiosity and openness about the person's understanding of the situation and his/her desired outcome from the seating / mobility invention.

09:05 PLENARY**Wheelchair Skills Assessment and Training – What in the World is Going On!?***R Lee Kirby*

1. Describe the World Health Organization (WHO) Guidelines on the Provision of Wheelchairs in Less-Resourced Settings.
2. Access the WHO Guidelines and related materials from the WHO website.
3. Describe the role of wheelchair skills assessment and training to the global wheelchair service delivery process.

9:30 BREAK WITH REFRESHMENTS & EXHIBITS

17:00 WELCOME RECEPTION & EXHIBITS
Hors d'oeuvres and a beverage ticket will be provided to all registered delegates.

10:20 SIMULTANEOUS PAPER SESSIONS #2 (Each Paper will be 10 minutes in length with 5 minutes Q & A)

	SALON 1	SALON 2	SALON 3
10:20	A New Trial of All Rental Wheel Chairs and Walking Aid Devices in Kaihukuki (Subacute) Rehabilitation Hospital <i>Mikio Sumida, Koji Oka, Hongseon Yang</i>	Different Seats Impact on Spinal Cord Injury (SCI) Subjects and Effectiveness of Pelvic Total Support: A Multicentric Study <i>Rosaria Eugenia Caforio</i>	Measurement Properties of the Wheelchair Skills Test for Scooters <i>Ben Mortenson</i>
10:35	Reliability and Sensitivity of the Wheelchair Components Questionnaire for Condition <i>Karen Rispin</i>	Influence Of Sacral Sitting In A Wheelchair On The Contact Pressure Distributions On The Buttocks And Back And Shear Force On The Ischial Area Of Wheelchair Users <i>Tadahiko Kamegaya</i>	Get In the Game: Gaming Technology for Wheelchair Skills Training <i>Ed Giesbrecht, William Miller</i>
10:50	Manual Wheelchair Data Logging: Outcomes, Challenges and Barriers <i>François Routhier</i>	A New Approach to Pressure, Friction, Shear and Microclimate Management in Wheelchair Seating – Imagine the Possibilities <i>Mark J. Payette</i>	Feasibility of a Peer-led, Self-Efficacy Enhanced Wheelchair Training Program for Older Adults: Study Protocol of a Randomized Controlled Trial <i>Krista L. Best</i>
11:05	Seat Elevators: How to Utilize the Functional Mobility Assessment to Track Function and Justify Medical Necessity <i>Corey W. Hickey, Brad Dicianno</i>	Heat Dissipation in a Custom Molded Seating System <i>Lynore McLean, Irene Schmid</i>	Long-Term Care Facility Residents' Initial Experiences and Perceptions of Intelligent Power Wheelchairs <i>Paula Rushton</i>
11:20	The Biomechanics of Using the SmartDrive for Wheelchair Propulsion <i>Ben Mortenson</i>	Whole Body Vibration Measurement System for Power Wheelchairs <i>Carmen P. DiGiovine, Sandra A. Metzler</i>	Smart Wheelchairs in Assessment and Training: Findings from a Consensus Workshop <i>Pooja Viswanathan, Rosalie Wang, Lisa Kenyon</i>

11:35 LUNCH (provided) & EXHIBITS

12:00 POSTER SESSION

Poster presenters will be available during this time to answer questions. The posters will be set up for viewing throughout the symposium.

13:00 INSTRUCTIONAL SESSION C

C1 | Beginner-Intermediate**Em-POWERment: Power Mobility Training Methods for Children and Adolescents with Multiple Severe Disabilities***Lisa K. Kenyon, John P. Farris*

Children and adolescents with severe motor, cognitive, and communication deficits are often limited in their ability to use self-generated movement to explore and learn from the world around them. This session will detail power mobility training methods for children ages 9 months to 26 years who have multiple, severe disabilities.

1. Discuss three potential benefits of using power mobility training interventions with children who have multiple, severe disabilities.
2. Establish power mobility training regimens designed to meet the individual needs of children who have multiple, severe disabilities.
3. Evaluate outcomes and expectations for the use of power mobility interventions in this unique population.

C2 | Intermediate-Advanced**ISO Performance Standard for Postural Support Devices: What Should I Know?***Kelly Waugh*

Using information from standards helps to improve client outcomes and customer satisfaction. Product performance is based on product quality, design and appropriate clinical application. Come learn about two ISO seating standards related to the application and performance

of postural support devices, and be empowered to join the standards movement!

1. Describe the content of the two ISO standards discussed in this course.
2. Compare two PSD products' ability to withstand static and repetitive loads using the results reported in their PSD test reports.
3. List three benefits of wheelchair standards.

C3 | Beginner-Intermediate**The Art of Balance: Function and Posture in Wheelchair Seating***Cheryl Hon, Lindsay Alford*

Balancing function and posture is a constant dilemma in wheelchair seating. The inability to balance it can have a profound impact on the user's satisfaction with their mobility system and health and quality of life. A practice model to assist with clinical reasoning will be reviewed. Case studies will be utilized to demonstrate use of this model.

1. Identify the issues when balancing function and posture.
2. Review a clinical reasoning model to assist with balancing function and posture.
3. Review clinical case examples, while using the model to guide process and reasoning.

C4 | Beginner-Intermediate**Aging with Cerebral Palsy***Marlene Holder*

This workshop will provide an overview of CP classification and then focus on factors that impact adults with CP including musculoskeletal deformities, pain, fatigue, tone management and participation. Case reviews and video interviews will illustrate the impact of the above factors on seating and mobility as well as everyday functioning.

1. Identify 4 musculoskeletal deformities experienced by adults with CP, outlining the clinical manifestations.
2. Choose 3 methods of tone management and describe when each would be used.
3. List 2 factors that impact participation of adults with CP and the solutions used to address them.

C5 | Beginner-Intermediate | Manufacturer**The Paediatric Positioning Puzzle: Balancing Support with Function***Kathryn Fisher, Nicole Captain*

When developing seating & mobility systems for children with progressive neuromuscular conditions growth, stability and support must be considered while focusing on the functional challenges of manual wheelchair propulsion, power chair driver controls and computer access. This presentation will highlight the assessment and decision making process involved to ensure successful outcomes.

1. Identify 3 therapeutic goals of children with neuromuscular conditions.
2. Identify 3 benefits of positioning related to independent mobility.
3. Determine essential components of the assessment process to ensure successful seating and mobility outcomes.

C6 | Beginner-Intermediate**You Got To Move It, Move It! Pressure Relief Behaviors and Weight Shifting Activities to Prevent Pressure Ulcers in Persons with SCI***Sharon E. Sonenblum, Trevor A. Dyson-Hudson*

Ever wonder how people move in their wheelchairs? Think you already know? Test your knowledge as we present methods for measuring how people move and an overview of wheelchair activity and in-seat movement in over 100 full-time wheelchair users. We will also discuss the impact of movement on tissue health.

1. Recognize how dedicated pressure reliefs and other weight-shift activities have a protective influence on skin in persons with SCI.
2. Describe different ways in which full-time manual wheelchair users with SCI move in their wheelchairs.
3. Discuss the impact and role functional movements can have on developing clinical interventions to prevent pressure ulcers in persons with SCI.

14:00 ROOM CHANGE**14:10 INSTRUCTIONAL SESSION D****D1 | Beginner-Intermediate****Tune Up Time: Optimizing Function and Performance***Matt Lowell, Ken Kozole*

We plan to review briefly what key elements we use for our program. Explore identifying common issues and the benefit and technique for manual wheelchair maintenance, alignment and adjustment to maximize the performance of the patient's wheelchair. We plan to provide fundamental skills and alternative techniques for end users, caregivers and practitioners.

1. Identify at least 3 problems common to manual wheelchairs which can severely affect the functional performance.
2. Explain how to make at least 3 repairs to enhance manual wheelchair performance.
3. Explain how to make at least 3 adjustments to enhance manual wheelchair performance.

D2 | Beginner-Intermediate**My First Wheels: An Evaluation of a Novel Powered Mobility Device for Use in Early Intervention***Scott Langmead*

The need to provide augmented mobility experiences for young children has led to an emphasis on earlier access to powered mobility. Innovative clinical practice has resulted in the sourcing and implementation of a novel age appropriate powered mobility device for use in Australia. A discussion and series of clinical case studies follow.

1. Identify the five key properties of a first powered device for young children.
2. Identify three different scenarios that illustrate clinical use with longitudinal follow up.
3. Identify clinical points of interest in augmenting mobility using a novel powered device.

D3 | Intermediate-Advanced**Shoulder Evaluation and Intervention for Manual Wheelchair Users***Wendy M Koesters, Carmen P DiGiovine*

How can we treat, with therapeutic intervention and optimizing wheelchair set up, the most common shoulder pathologies encountered with manual wheelchair users? Let's review clinical prediction rules with screening the shoulder, evidence based intervention strategies, wheelchair configuration, modifications, and objective measures for shoulder preservation.

Case studies included for clinical application of screening, intervention, and return to home-work-sport.

1. State clinical prediction rules for the most common shoulder dysfunctions encountered by manual wheelchair users.
2. State 3 manual techniques for shoulders to increase shoulder IR and horizontal adduction.
3. State 3 patient completed activities to improve shoulder flexion.
4. State 2 outcome measures to assess impact of intervention both via therapy intervention and w/c set up.

D4 | Intermediate-Advanced | Manufacturer**What's New in Medicare Reimbursement?***Elizabeth Cole*

Policy changes, “clarifications”, new programs... it's difficult to keep up with what's new in Medicare reimbursement, but imperative to stay informed in order to ensure proper provision and reimbursement for appropriate seating/mobility equipment. This course provides an update of current reimbursement issues affecting access to seating/mobility in the U.S.

1. Identify any pertinent policy changes and/or documentation requirements for seating and mobility products that have occurred within the last year.
2. Identify where to find information and resources regarding these issues.
3. Identify means by which clinicians, providers and consumers can support initiatives to address these issues.

D5 | Intermediate-Advanced**“A Day in the Life” At Home Complex Rehab Equipment Evaluations: An Individualized Process***Lois Brown*

This course was inspired by providing complex neurorehab therapy, wheelchair and AT evaluations in the home. The advantage? A true perspective in the patient's own environment. ALS, MS and ABI case studies will help us learn from the patient, family and caregivers about their needs in the equipment prescription process.

1. Evaluate the individual's rehab equipment needs specific to their environment, activity pattern and multiple support surfaces with regard to positioning and pressure.
2. Recognize the patient, family, caregiver needs in education about equipment and funding options.
3. Integrate all mobility and AT equipment needs with respect to each other to meet the patient's needs.

D6 | Intermediate-Advanced**Seating and Mobility for the Oncology Patient***Carina Siracusa*

Oncology patients can be greatly benefit from a variety of assistive technology devices. This presentation will discuss the physical side effects of oncology treatment as well as appropriate AT selection and funding justification.

1. Identify the physical and musculoskeletal side effects of oncology treatment.
2. Describe funding strategies for assistive technology for the oncology patient.

15:10 BREAK WITH REFRESHMENTS & EXHIBITS**16:00 PANEL****Progressive Conditions: The Personal Journey***Moderated by Jean Minkel***Panel Participants: Ean Price, Alisa Silvestre, Gary Schroeder**

Participants of this panel will share their story and experiences of using seating and mobility services and will explore the following questions: When you (or your child) were first diagnosed, or experienced a significant change in level of function that required an assessment for new or more complex seating or mobility technologies, How did you feel? What was handled well by the professionals working with you? What would have made the situation or the process better for you?

17:00 ADJOURN**FRIDAY, MARCH 4, 2016****08:00 REGISTRATION**
Continental Breakfast & Posters**08:30 INSTRUCTIONAL SESSION E****E1 | Beginner-Intermediate****The Donation of Wheelchairs with a Customized and Functional Postural System is a Social Responsibility That Strengthens the Dignity of People with Disabilities. Case Study: Impact on Costa Rica Rural Areas.***Shirley Pereira*

The case study will show 7 years of experience through the story of 5 of the 148 people with disabilities who received donated wheelchairs by the foundation Fundación Amor y Esperanza (FUNDAE), founded in 2001 with the aim of promoting an integrated inclusion and development of people with multiple disabilities.

1. Identify the relevant aspects that take part in the donation of quality wheelchairs that guarantee the adequate posture of patients, while fully respecting their needs and interests, and in accordance with their environment.
2. Acknowledge the importance of having an adapted wheelchair with a postural system that allows the person with disabilities to have an independent life.
3. Identify the psychosocial factors that improve the lives of people with disabilities who have a wheelchair adapted to their needs and interests.

E2 | Beginner-Intermediate**The CanWheel Power Wheelchair Outcomes Toolkit: Overview and Application***William Miller, Paula Rushton, R Lee Kirby, Claudine Auger, Ben Mortenson*

The Power Wheelchair Outcomes Tool Kit includes outcome measures designed to capture information about wheelchair skills, effectiveness, social significance, and subjective wellbeing of individuals who use a power wheelchair. On completion of the workshop, participants will be able to integrate these measures into research or clinical practice.

1. Describe, administer, score, and interpret the scores of the Wheelchair Skills Test, WheelCon, Assistive Technology Outcome Profile for Mobility, and Caregiver Assistive Technology Outcomes Measure.
2. Identify how scores from the Wheelchair Skills Test, WheelCon, Assistive Technology Outcome Profile for Mobility, and Caregiver Assistive Technology Outcomes Measure can be used in combination to optimize their applicability and utility in development of targeted interventions for power wheelchair users.
3. Describe how use of the Power Wheelchair Outcomes Tool Kit enables the development of a more targeted, comprehensive intervention plan in comparison to an intervention developed on the basis of only 1-2 outcome measures.

E3 | Intermediate-Advanced**Gait Trainers: Evidence-Based Clinical Practice Guidelines***Ginny S Paleg, Roslyn Livingstone*

This workshop will present information on the evidence regarding use of gait trainers (walkers providing trunk and pelvic support) with children. The information presented will be based on a systematic review, a technical study comparing gait trainer features and a study comparing gait trainers with children at GMFCS level IV.

1. List three evidence based outcomes (using ICF language) for gait trainers in children with cerebral palsy (CP).
2. Be able to recognize three models of gait trainers.
3. State three reasons for choosing a posterior dynamic gait trainer vs. an anterior static model for a child with CP, dystonia and scissoring.

E4 | Beginner-Intermediate**Seating for Pressure Management***Jo-Anne Chisholm, Joanne Yip*

Seating and pressure management is a common challenge for many therapists working with people in wheelchairs. This instructional session will describe a pressure management model that provides a framework for intervention and promotes self management. Interpretation of pressure maps and case examples will be used to illustrate successful seating interventions.

1. Describe a practice model for pressure management.
2. Explain the difference between force isolation and pressure redistribution in management of pressure.
3. Identify 2 ways pressure mapping augments assessment, prescription and provision of seating for a person at high risk of pressure.

E5 | Intermediate-Advanced**The Clinician Scientist in the Seating and Mobility Clinic: A Foundation for Education, Research and Clinical Practice***Theresa F Berner, Bonnie Sawatzky, Carmen P DiGiovine, Tina Roesler*

With the increase of clinical doctorate programs, therapists are better trained to evaluate and apply research into clinical practice. This presentation will describe the core components of a clinician scientist and the role in the seating and mobility clinic. This new clinician can be an added resource, rather than research being a perceived burden.

1. List the three core components of the clinician scientist.
2. Describe examples of the clinician scientist role in a seating and mobility clinic.
3. Identify one way you can advance your skills as a clinician scientist.
4. Identify one way you can advance the seating and mobility clinic you work in to improve the service delivery process.

09:30 ROOM CHANGE**09:40 INSTRUCTIONAL SESSION F****F1 | All****From Paper to Practice: Clinical Application of Evidence-Based Practice in Seating and Mobility***Marlene Adams*

The field of seating and mobility is constantly developing. There are now resources that support clinical best practice. This session will focus on how one seating clinic modified their practice to better reflect new standards and the value of various resources to the clinician working in seating and mobility.

1. Become aware of 3 resources that guide clinical decision making and intervention.
2. Understand how resources can enhance clinical justification.
3. Be introduced to 3 clinical examples of the use of resources in practice.

F2 | Beginner-Intermediate | Manufacturer**Spot-On, Hands-Free and On-Demand Manufacturing: The Implications of 3D Printing for Seating, Positioning & Mobility Services***Richard Pasillas, Victor Carvente*

It is now possible to fabricate a complex seating system without having to rely on drills, saws, routers or glue. This workshop illustrates how the technology of 3D printing (additive manufacturing) dramatically changes the manner in which our industry designs, produces, fine tunes, delivers and repairs client-specific products and services.

1. Identify must-have features in affordable, mid-priced 3D printers.
2. Recognize key differences in material selections, along with their specific print behavior.
3. Learn how to print without owning a printer; and become savvy enough to avoid the time delaying pitfalls of improperly planned CAD drawings or inappropriately selected materials.

F3 | Beginner-Intermediate**The Other Seat! Where Else is Skin Integrity Preservation & Postural Management a Critical Consideration for the Wheelchair Seated Client? In The Bathroom of Course!***Sharon Sutherland*

This presentation will review the clinical and functional needs of rehab users in conjunction with the seating and positioning attributes of rehab shower commode chairs.

1. Identify the skin integrity needs of clients using rehab shower commode chairs.
2. List the postural and functional needs of clients using rehab shower commode chairs.
3. List 2 critical product parameters that should be considered when prescribing/selecting rehab shower commode chairs.
4. Learn how interface pressure mapping can be used as an adjunct to our clinical decision making with regard to rehab commode chairs.

F4 | Intermediate-Advanced**Common Problems in Seating and Access to Integration and Use of Assistive Technology***Karen M Kangas, Lisa M Rotelli*

This course will focus on the most common problems we encounter in the field as we support users with the most complex bodies in using their seating and mobility systems with additional assistive technology. Mouse use, mouse emulation, and integration of systems, with joysticks and alternative access will be discussed.

1. Identify the exact and specific pieces of equipment needed when integrating a powered chair with an AAC device.
2. Identify three parameters they must analyze before teaching the use of a joystick as a mouse, through blue tooth access.
3. Analyze three characteristics of their user to "match" the integration needed for access to a computer.

F5 | Intermediate-Advanced**Wheeling in the City: Mobility & Environmental Access Considerations across the Globe***Elaine Vivianne Toskos*

Urban users face a unique set of challenges when using their assistive technology. Whether it's a manual or power wheelchair, bathing equipment or sports and leisure device, accessibility, transportation and environmental issues seem to always compete.

This course will use case studies to review environments, equipment options available and outline various interventions used to provide creative and practical solutions to city dwellers. Equipment tolerance, design, form and function take on a whole new meaning when considering the architecture, living space and fast pace life of a major metropolis like NYC, Tokyo, Zurich or Oslo.

1. Understand three key features of wheelchair design that must be considered when selecting a device for travel.
2. Describe two characteristics to consider when selecting a portable ramp.
3. List three features to consider when selecting a device for bathing access.

F6 | ALL**Specialized Seating and Mobility: Meeting goals and managing expectations***Mary McDonagh*

Clinical case studies will be presented providing examples of some of the challenges facing clinicians when it comes to setting realistic goals for clients with complex needs. These cases will identify strategies used in order to help manage expectations and establish realistic goals in the clinical setting.

1. Enable clinicians identify factors which can make goal setting a challenging task.
2. Recognize the importance of effective communication throughout all stages from assessment through to supply and follow up in the clinical setting.
3. Understand the importance of teamwork when it comes to setting realistic goals and managing expectations.
4. Identify strategies that can assist clinicians in managing expectations when it comes to setting realistic goals in the clinical setting.

10:40 BREAK
Refreshments & Poster Viewing

11:00 PLENARY**I'm Leaving on a Jet Plane. I Hope I'll See My Chair Again***Jessica Presperin Pedersen*

1. Describe what a wheelchair user should do before stowing a wheelchair on a commercial flight.
2. Name a device used by some airlines to prevent a wheelchair from falling off a conveyor belt.
3. State measurements of the door and insides of the stowage area for most aircraft.

11:25 PLENARY**Ethically Prescribed Technology***Linda Norton*

1. Identify the ethical dilemmas involved in prescribing currently available technology.
2. Explore several different ethical concepts in relation to specific prescription scenarios that help to illuminate the considerations for clinicians.
3. Discuss when and how these technologies should be used to foster positive clinical outcomes.

11:50 CLOSING PLENARY**Risk, Reward, and Reality***Dave Symington*

1. Understand the importance of balancing theory and practical knowledge against individual needs and desires of clients with the same diagnosis.
2. Recognize the critical need for community, peer mentoring, and intimacy.
3. Gain a deeper understanding of acceptance on both sides of the therapeutic relationship.

12:15 CLOSING REMARKS & EVALUATION*Dave Cooper & Maureen Story (co-chairs)***12:35 ADJOURN****Poster Presenters****An External Support Device for a Liver and Kidney Prolapse***Dianna Mah-Jones***Boarding Devices and Aircraft Seats- Increasing Safety, Support, and Comfort***Jessica Presperin Pedersen***Development and Evaluation of an Ultralight Wheelchair with On-The-Fly Adjustability of Rear Seat Height, Backrest Angle, and A "Kneeling" Function***Johanne Mattie***Driving Controls for a Patient with ALS- A Clinical Case***Ana Allegratti***Garments for Friction Management for Wheelchair or Extended Bed Surface Users***Mark J Payette***Global RePurposing: A Model for Meeting the Needs of the Underserved Internationally***Jeff Swift, Sharon Swift, Delia Freney***Influences of Sacral Sitting on the Manual Wheelchair Propulsion Ability***Tadahiko Kamegaya***New Wheelchair Accessory Prevents a Hunched Forward Head Posture While Seated***Tatsuo Hatta***Off the Shelf and Out of the Box: Adaptation of Commercially Available Product to Meet Custom Needs***Matt Lowell, Ken Kozole***Power Mobility Training For Young Children with Multiple, Severe Disabilities: A Case Series***Lisa K. Kenyon, John P. Farris***Relationship between Pelvic Tilt Angles and Seat Pressure Distribution with Different Cushion Types***Yuji Minami***The Wheelchair Outcome Measure for Young People: On-Going Development and Clinical Usefulness***Debra A Field***Use of Electroencephalography to Objectively Assess Power Mobility Use in Children with Severe Disabilities: A Pilot Project***Lisa K. Kenyon, John P. Farris*

Presenters:

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